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Unlocking the Therapeutic Potential of the Genus Senecio (Asteraceae): Essential Oil Composition and Pharmacological Insights

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Abstract

Senecio is the largest and most complex genus in the family of the Asteraceae with more than 1,500 species distributed widely throughout the world. A comprehensive search of the electronic databases (1986–2023) using the keywords of 'Senecio' and 'essential oil' revealed that an essential oils composition breakdown is available for 57 species, with α -pinene, α -farnesene, germacrene D, p-cymene, myrcene, α -terpinene, and caryophyllene oxide being the most identified components. The pharmacological activities have been summarized of different species including antimicrobial, antioxidant, repellent, antifungal, acaricidal, anti-inflammatory, cytotoxicity, phytotoxic, anticholinesterase, allelopathic, nematicidal, antimalarial, antileishmanial, α -glucosidase, anticorrosive, analgesic, and toxicity. This review is expected to lay the foundation for further studies of this genus and provides guidance for selecting accessions of species with the best chemical profiles. © 2025, INNOVHUB httpStazioni Sperimentali per l'Industria S.r.l httpArea Oli e Grassi. All rights reserved.

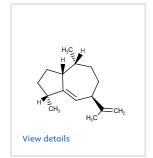
Author keywords

antimicrobial; Asteraceae; composition; essential oil; Senecio; α -pinene

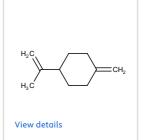
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$$\begin{array}{c} \text{CH}_2\\ \text{H}_3\text{C} \end{array}$$
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